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10/019,120	01/30/2002	Rauno Rantanen	3397-111PUS	1903
7590 08/02/2006				
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		TUROCY, DAVID P		
		ART UNIT		
		1762		
		DATE MAILED: 08/02/2006		

Please find below and/or attached an Office communication concerning this application or proceeding.

5

<b>Office Action Summary</b>	<b>Application No.</b> 10/019,120	<b>Applicant(s)</b> RANTANEN, RAUNO	
	<b>Examiner</b> David Turocy	<b>Art Unit</b> 1762	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

- 1) ☒ Responsive to communication(s) filed on 17 May 2006.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

- 4) ☒ Claim(s) 20-67 and 76-89 is/are pending in the application.  
4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 20-26, 29-34, 36-40, 42-46, 48-52, 54-66, 76-85 is/are rejected.
- 7) ☒ Claim(s) 27, 28, 35, 41, 47, 53, 67 and 86-89 is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  
a) ☒ All b) ☐ Some \* c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
  - ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  - ☒ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

#### Attachment(s)

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)  | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                                   | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)             |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)<br>Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____  |

## **DETAILED ACTION**

### ***Response to Amendment***

1. Applicant's amendments, filed 5/17/2006, have been fully considered and reviewed by the examiner. The examiner notes the amendment to the claims and therefore the 35 USC 112 1<sup>st</sup> paragraph and 2<sup>nd</sup> paragraph rejections have been withdrawn. Claims 20-67 and 76-89 remain pending in the instant application.

### ***Response to Arguments***

2. The applicant has argued against the Brigg reference stating the reference discloses the front plate of the showerhead is fixed and therefore there is no actuator for moving the front plate relative to the rest of the showerhead. While the examiner does not disagree, the claim as written requires a feeding chamber for receiving treating fluid (in the case of Brigg, the pipe leading to the showerhead) a means for directing treating agent from the feeding chamber (shower head) and an actuator coupled to the nozzle plate (i.e. the swivel ball coupled to the front plate via the showerhead). The applicants argue Briggs teaches a spray or sprinkle and not a continuous jet; however, such a limitation is mere intended use. Additionally, spray appears to be continuous for a small amount of time and therefore continuous does not require an infinite amount of time.

The applicant has argued against the Himes reference stating the Himes reference does not teach a "screen plate" because the plate in Himes does not screen fluid. Such an argument is not commensurate in scope with the claims because the

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claims do not require such a limitation, additionally; Himes is capable of screening a fluid using the manifold transition plate.

The applicant has argued against the Franz reference stating the reference fails to disclose a screen plate, however, the examiner maintains, the plate in figure 14, wherein the fluid enters the tubes, can be considered a "screen plate" because it screens fluid, which is required by the claim.

All other Applicant arguments with respect to claims have been considered but are moot in view of the new ground(s) of rejection.

### ***Claim Rejections - 35 USC § 102***

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

4. Claims 20-21, 24-26, 29, 48-49, 52, 57, 58, 59, 60 are rejected under 35 U.S.C. 102(b) as being anticipated by US Patent 4901093 by Ruggiero et al., hereafter Ruggiero.

Ruggiero teaches a method of applying a treating agent onto a moving surface by feeding the agent into a chamber and then forming jets by directing the treating agent through the openings in a nozzle plate, wherein the entire peripheries of the openings are defined by the plate (Figure 1, abstract). Ruggiero discloses directing the jets toward the moving surface and moving the nozzle plate transversely relative to the

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direction of the moving surface (Figure 1, Column 3). When ejecting the coating near the edges of the moving surface, the nozzle plate will inherently be outside of the width of the moving surface, see figure 1 where the orifices are located in the center of the moving nozzle plate. Additionally, spray appears to be continuous for a small amount of time and therefore continuous does not require an infinite amount of time and therefore the jet of Ruggiero is continuous. The other issues are mere intended use of the apparatus and it is well settled that the intended use of a claimed apparatus is not germane to the issue of the patentability of the claimed structure. If the prior art structure is capable of performing the claimed use then it meets the claim. *In re Casey*, 152 USPQ 235, 238 (CCPA 1967); *In re Otto*, 136 USPQ 459 (CCPA 1963).

Claim 24: Ruggiero discloses a screen plate (136).

Claims 48-49 and 52: Ruggiero discloses controlling the amount of fluid applied to the moving surface by controlling the amount of fluid exiting the nozzle plate, which would inherently be a function of the volume flow (Column 5, lines 37-58).

5. Claim 83 is rejected under 35 U.S.C. 102(b) as being anticipated by US Patent 5649867 by Briggs.

Briggs teaches of an apparatus for spreading a treating agent (water) onto a moving surface (people) (Abstract). Briggs discloses atleast one feeding chamber and a nozzle plate (107), including openings and having a length greater than a width of the moving surface (Figure 1). Briggs teaches the opening comprise a periphery defined

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entirely by the nozzle plate and forming said jets of the treating agent by the opening for directing the treating agent toward the moving surfaces (Figures). Briggs discloses providing actuators connected to the nozzle plate to allow for movement (Column 7, lines 40-47). The other issues are mere intended use of the apparatus and it is well settled that the intended use of a claimed apparatus is not germane to the issue of the patentability of the claimed structure. If the prior art structure is capable of performing the claimed use then it meets the claim. *In re Casey*, 152 USPQ 235, 238 (CCPA 1967); *In re Otto*, 136 USPQ 459 (CCPA 1963).

### ***Claim Rejections - 35 USC § 103***

6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

7. *Claims 20-22, 24, 48-50, 52, 57-58, and 76-77 are rejected under 35 U.S.C.*

*103(a) as being unpatentable over US Patent 5789022 by Kustermann et al*

*("Kustermann") in view of US Patent 4072772 by Franz and further in view of US Patent 6063450 by Bernert et al. ("Bernert").*

Kustermann discloses utilizing a pressurized jet to apply treating agent onto a moving surface (Figure 1, Column3, lines 11-15). Kustermann discloses that it is known

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in the art to apply treating agent directly onto the fiber web as it moves along a path of travel (Column 1, lines 20-25). Kustermann also discloses a method of applying a treatment agent onto a roll to transfer the agent onto a moving web (Column 2, lines 60-65, Column 3, lines 13-15). Kustermann also discloses controlling the amount of treating agent fed onto the moving surface as a function of the volume flow of the treating agent (Column 3, lines 17-25).

However, Kustermann fails to teach sending the treatment agent into a feeding chamber, through a screen plate and then forming jets through openings defined by the peripheries of a nozzle plate.

However, Franz discloses a method for applying a coating onto a moving surface where the treatment agent is fed into a feeding chamber through a screen plate and then continuous jets, formed by directing the treating agent through openings in the nozzle plate, the openings in the nozzle plate where the jets are formed are defined solely by the nozzle plate, are directed towards the moving surface (Figure 8, 14, Abstract). In other words Franz teaches forming a jet using a pipe, by directing the treating agent through an opening of the nozzle plate, wherein the opening is solely defined by the nozzle plate.

Therefore, it would have been obvious to one skilled in the art at the time of the invention to modify Kustermann to use the pressurized spray nozzle suggested by Franz to provide a desirable application of a treatment agent because Kustermann teaches applying a treating agent through a pressurized jet onto a surface moving along

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a path and Franz teaches a known pressurized jet using openings in a nozzle plate to apply a treating agent onto a moving surface.

Kustermann in view of Franz teaches of applying the coating material as a free jet, but fails to disclose directing each jet such that each of the jets remains separated from each other in the space between the nozzle plate and the moving surface.

However, Bernert teaching of a coating a moving substrate using a free jet method, discloses using a free jet where the spray patterns overlap between adjacent nozzles or in the alternative the adjacent spray nozzles do not overlap, but rather the overlapping portion of the coating only overlap in two consecutive coating cycles, i.e. two consecutive nozzle plates (Column 2, lines 30-48). Bernert discloses that it is within the skill of one ordinary in the art at the time of the invention to determine the amount of overlap, depending on the desired coating properties, between two adjacent nozzles in the nozzle array. Therefore it would have been obvious to one of ordinary skill in the art at the time of the invention to modify Kustermann in view of Franz to produce a free jet without overlapping of adjacent nozzles with the expectation of producing a coating with the desired properties.

Claims 76-77: Kustermann, Franz, and Bernert fails to explicitly teach of providing a nozzle plate with a thickness within the range of 0.1 to 0.5 mm, however, Franz teaches of recessing the tub (278) from the edge of the nozzle plate about 0.003 inches, or about 0.075 millimeters (Column 11, lines 22-35). As shown in figure 9, tub



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(278) is recessed about half the thickness of the nozzle plate, therefore Figure 9 reasonably suggests to one of ordinary skill in the art to select a nozzle plate thickness of approximately 2 times the desired thickness or about 0.15 millimeters, which is within the range as claimed.

8. *Claims 23 and 51 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kustermann in view of Franz and Bernert as applied to claim 20 above and taken further in view of US Patent 3301699 by H.J. Mozzi ("Mozzi").*

Kustermann, Franz, and Bernert are applied here for the same reasons set forth in the 35 USC 103(a) rejection above. Kustermann discloses aiming the nozzles onto the surface of the applicator roll or under certain circumstances aiming the nozzles directly onto the surface of the web, while preferably the nozzles are aimed at the application roll near the roll nip (Column 5, lines 1-10). Such a disclosure shows that it is within the skill of one of ordinary skill in the art to determine the direction to aim the nozzles depending on the circumstances. However, Kustermann, Franz, and Bernert do not teach applying a portion of the treating agent directly onto the surface of the web and a portion of the treatment agent directly onto the surface, which contacts the web in the roll nip.

Mozzi, teaching of application of a treating agent onto a moving web, discloses aiming the pressurized spray nozzles so that a portion of the treating agent contacts the

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web and a portion of the treating agent contacts the surface of the roll (Column 2, lines 45-56, Figure 2).

Therefore, it would have been obvious to one skilled in the art at the time of the invention to modify Kustermann, Franz, and Bernert to aim the spray nozzles as suggested by Mozzi to provide a desirable coating of a continuously moving surface because Kustermann, Franz, and Bernert teach that it is within the skill of one ordinary in the art to determine the direction to aim the nozzle and Mozzi teaches that it is known in the art to aim the nozzles so that a portion of the spray pattern contacts both the web and the transfer roll.

9. *Claims 36-38, 40, 55 and 64-65 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kustermann in view of Franz and Bernert and taken further in view of US Patent 5405087 by Waryu et al. ("Waryu").*

Kustermann in view of Franz and Bernert teaches all the limitations of these claims as discussed in the 35 USC 103(a) rejection above, except they fail to teach cleaning the nozzle plate utilizing a needle-shaped water jet.

However, Waryu, teaching of applying a coating through a pressurized jet, discloses cleaning the opening in the nozzle by directing a needle-shaped water jet at the nozzle (Figure 1, Column 4, lines 21 – 37). Waryu discloses that such a cleaning jet will wash off and prevent any accumulating of the spray material on the nozzle (Column 5, lines 57-51).

Therefore, it would have been obvious to one skilled in the art at the time of the invention to modify Kustermann in view of Franz and Bernert to clean the openings of the nozzle with a water jet suggested by Waryu to provide a desirable prevention of accumulation of coating material on a nozzle because Kustermann in view of Franz and Bernert teaches coating a substrate through a nozzle and Waryu teaches that when coating a substrate using a nozzle it is advantageous to provide a cleaning water jet to wash off and prevent accumulation of coating material on the nozzle.

10. *Claims 30-32, 34, 54, and 61-62 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kustermann in view of Franz, Bernert, and Waryu taken further in view of US Patent 5219618 by Daniels ("Daniels").*

Kustermann in view of Franz, Bernert, and Waryu teaches all the limitations of these claims as discussed in the 103(a) rejection above, except they fail to teach cleaning the nozzle plate by blasting steam against the nozzle plate.

However, Daniels, teaching of a coating a moving web, discloses preventing the build-up of coating material on doctor blade using steam, water, a mixture of steam and water, or any material that does not affect the process (Column 2, lines 50-58). While it is noted that Daniels provides a cleaning jet onto a doctor blade, Daniels is utilized here to show that it is known in the art to blast steam, water, or any material appropriate for the process, at a surface to provide desired cleaning.

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Therefore, it would have been obvious to one skilled in the art at the time of the invention to modify Kustermann in view of Franz, Bernert, and Waryu to use the steam cleaning suggested by Daniels to provide a desirable cleaning of the nozzle because Kustermann in view of Franz, Bernert, and Waryu teaches using a water jet to prevent accumulation of coating material on the nozzle and Daniels teaches steam is a known substitute to water to wash off and/or prevent any undesirable coating material on a surface.

*11. Claims 33 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kustermann in view of Franz, Bernert, Mozzi and Waryu taken further in view of US Patent 5219618 by Daniels ("Daniels").*

Kustermann, Franz, Bernert, Mozzi and Waryu, and Daniels are applied here as applied here for the same reasons as give above in the 35 USC 103(a) rejection.

*12. Claim 39 is rejected under 35 U.S.C. 103(a) as being unpatentable over Kustermann in view of Franz, Bernert, and Mozzi and taken further in view of US Patent 5405087 by Waryu et al. ("Waryu").*

Kustermann, Franz, Bernert, Mozzi, and Waryu are applied here as applied here for the same reasons as give above in the 35 USC 103(a) rejection.

13. *Claims 42-44, 46, and 56 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kustermann in view of Franz, Bernert and Waryu taken further in view of WO96/10463 by Kunze-Concewitz ("Kunze-Concewitz").*

\*\*\* Please note: US Patent 5964952 by Kunze-Concewitz is utilized here as a fair translation of WO96/10463 by Kunze-Concewitz \*\*\*

Kustermann in view of Franz, Bernert and Waryu teaches all the limitations of these claims as discussed in the 103(a) rejection above, except they fail to teach cleaning the nozzle plate with ultrasound.

However, Kunze-Concewitz, teaching of a method of cleaning a surface with water, discloses conventional cleaning methods include ultrasound and spraying water at high pressure from a nozzle (Column 1, lines 10-17). While it is noted that Kunze-Concewitz teaches a method of cleaning a surface, Kunze-Concewitz is utilized here to show that it is known in the art to clean a surface using any number of conventional cleaning methods including ultrasound and high-pressure water.

Therefore, it would have been obvious to one skilled in the art at the time of the invention to modify Kustermann in view of Franz, Bernert and Waryu to use the ultrasound cleaning method as suggested by Kunze-Concewitz to provide a desirable nozzle cleaning because Kustermann in view of Franz, Bernert and Waryu teaches cleaning a nozzle with a high pressure water jet and Kunze-Concewitz teaches ultrasound cleaning is a known substitute to high pressure water jet to clean a surface.

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Please note that the test of obviousness is not an express suggestion of the claimed invention in any or all references, but rather what the references taken collectively would suggest to those of ordinary skill in the art presumed to be familiar with them (*In re Rosselet*, 146 USPQ 183).

14. *Claim 45 is rejected under 35 U.S.C. 103(a) as being unpatentable over Kustermann in view of Franz, Bernert, and Mozzi and taken further in view of WO96/10463 by Kunze-Concewitz ("Kunze-Concewitz").*

Kustermann, Franz, Bernert, Mozzi, and Kunze-Concewitz are applied here as applied here for the same reasons as give above in the 35 USC 103(a) rejection.

15. *Claims 78, 82 and 83 are rejected under 35 U.S.C. 103(a) as being unpatentable over US Patent 4901093 by Ruggiero et al., hereafter Ruggiero in view of US Patent 5736195 by Haaland, hereafter Haaland..*

Ruggiero teaches a method of applying a treating agent onto a moving surface by feeding the agent into a chamber and then forming jets by directing the treating agent through the openings in a nozzle plate, wherein the entire peripheries of the openings are defined by the plate (Figure 1, abstract). Riggiero discloses directing the jets toward the moving surface and moving the nozzle plate transversely relative to the direction of the moving surface (Figure 1, Column 3). When ejecting the coating near the edges of the moving surface, the nozzle plate will inherently be outside of the width

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of the moving surface, see figure 1 where the orifices are located in the center of the moving nozzle plate.

Haaland discloses, a similar nozzle plate, forming the droplets using the nozzle plate on a substrate discloses that it is known in the art to provide a fluid reservoir (14) or a fluid pipe (15) to store the fluid ejected from a nozzle at an external location and provides passage to the nozzle for spraying (figures). The selection of something based on its known suitability for its intended use has been held to support a *prima facie* case of obviousness. *Sinclair & Carroll Co. v. Interchemical Corp.*, 325 U.S. 327, 65 USPQ 297 (1945).

Alternatively, it would have been obvious to one of ordinary skill in the art at the time of the invention to modify Ruggiero to include a fluid reservoir to store the fluid distant from the nozzle with a reasonable expectation of success because Haaland discloses when spraying liquid through a nozzle plate it is advantageous to have the liquid in a tank. The prior art can be modified or combined to reject claims as *prima facie* obvious as long as there is a reasonable expectation of success. *In re Merck & Co., Inc.*, 800 F.2d 1091, 231 USPQ 375.

Claim 82: Ruggiero discloses controlling the amount of fluid applied to the moving surface by controlling the amount of fluid exiting the nozzle plate, which would inherently be a function of the volume flow (Column 5, lines 37-58).

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16. *Claim 79 and 84 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ruggiero in view of Haaland and further in view of US Patent 5790147 by Hensel, hereafter Hensel.*

Ruggiero in view of Haaland teaches all the limitations of these claims as discussed above, however, the reference fails to teach of providing steam to clean the nozzle plate.

However, Hensel, teaching of a similar ink jet printer, discloses directing steam at a nozzle plate with a plurality orifices in order to clean the openings from clogging (abstract, column 1, lines 55-65). Hensel discloses the steam provides the advantage of softening the sediments clogged in the nozzle plate and provide better cleaning (Column 2, lines 49-56).

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to modify Ruggiero in view of Haaland to use the steam cleaning as suggested by Hensel with a reasonable expectation of success to reap the benefits of removing easily removing sediments from the nozzle orifices.

17. *Claim 80 and 85 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ruggiero in view of Haaland and further in view of US Patent 5405087 by Waryu et al. ("Waryu").*

Ruggiero in view of Haaland teaches all the limitations of these claims as discussed above, except they fail to teach cleaning the nozzle plate utilizing a needle-shaped water jet.



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However, Waryu, teaching of applying a coating through a pressurized jet, discloses cleaning the opening in the nozzle by directing a needle-shaped water jet at the nozzle (Figure 1, Column 4, lines 21 – 37). Waryu discloses that such a cleaning jet will wash off and prevent any accumulating of the spray material on the nozzle (Column 5, lines 57-51).

Therefore, it would have been obvious to one skilled in the art at the time of the invention to modify Ruggiero in view of Haaland to clean the openings of the nozzle with a water jet suggested by Waryu to provide a desirable prevention of accumulation of coating material on a nozzle because Ruggiero in view of Haaland teaches coating a substrate through an orifice and Waryu teaches that when coating a substrate using a nozzle it is advantageous to provide a cleaning water jet to wash off and prevent accumulation of coating material on the nozzle.

18. *Claim 81 is rejected under 35 U.S.C. 103(a) as being unpatentable over Ruggiero in view of Haaland and Waryu taken further in view of WO96/10463 by Kunze-Concewitz ("Kunze-Concewitz").*

\*\*\* Please note US Patent 5964952 by Kunze-Concewitz is the patent, which issued from the national stage application based on WO96/10463. This patent is being used as an English translation of WO WO96/10463, therefore all references to column and line number are found in 5964952 \*\*\*

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Ruggiero in view of Haaland and Waryu teaches all the limitations of these claims as discussed in the 103(a) rejection above, except they fail to teach cleaning the nozzle plate with ultrasound.

However, Kunze-Concewitz, teaching of a method of cleaning a surface with water, discloses conventional cleaning methods include ultrasound and spraying water at high pressure from a nozzle (Column 1, lines 10-17). While it is noted that Kunze-Concewitz teaches a method of cleaning a surface, Kunze-Concewitz is utilized here to show that it is known in the art to clean a surface using any number of conventional cleaning methods including ultrasound and high-pressure water.

Therefore, it would have been obvious to one skilled in the art at the time of the invention to modify Ruggiero in view of Haaland and Waryu to use the ultrasound cleaning method as suggested by Kunze-Concewitz to provide a desirable nozzle cleaning because Ruggiero in view of Haaland and Waryu teaches cleaning a nozzle with a high pressure water jet and Kunze-Concewitz teaches ultrasound cleaning is a known substitute to high pressure water jet to clean a surface. Please note that the test of obviousness is not an express suggestion of the claimed invention in any or all references, but rather what the references taken collectively would suggest to those of ordinary skill in the art presumed to be familiar with them (*In re Rosselet*, 146 USPQ 183).

### **Allowable Subject Matter**

19. Claims 27-28, 35, 41, 47, 53, 67, and 86-89 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

The following is a statement of reasons for the indication of allowable subject matter:

As for claims 25-29, 35, 41, 47, 53, 59-60,63, and 66: None of the prior art cited or reviewed by the examiner discloses providing a nozzle plate moving transversely relative to the direction of the movement of the moving surface of a transfer surface or nip roll, so that at least a portion of the length of the nozzle plate is outside of the width of the area being treated.

As for claim 67: none of the prior art cited or reviewed by the examiner discloses providing a steel plate movably fitted in the feeding chamber so that the steel blade scrapes the screen plate and nozzle plate during movement.

As for Claims 86-89: None of the prior art cited or reviewed by the examiner discloses a screen plate prior to nozzle plate, wherein the screen plate has smaller holes than the nozzle plate.

### **Conclusion**

20. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP

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§ 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

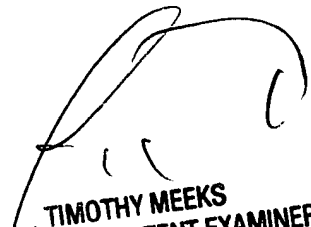
Any inquiry concerning this communication or earlier communications from the examiner should be directed to David Turocy whose telephone number is (571) 272-2940. The examiner can normally be reached on Monday-Friday 8:30-6:00, No 2nd Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Timothy Meeks can be reached on (571) 272-1423. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

David Turocy  
AU 1762



**TIMOTHY MEEKS**  
**SUPERVISORY PATENT EXAMINER**